FIG. 1

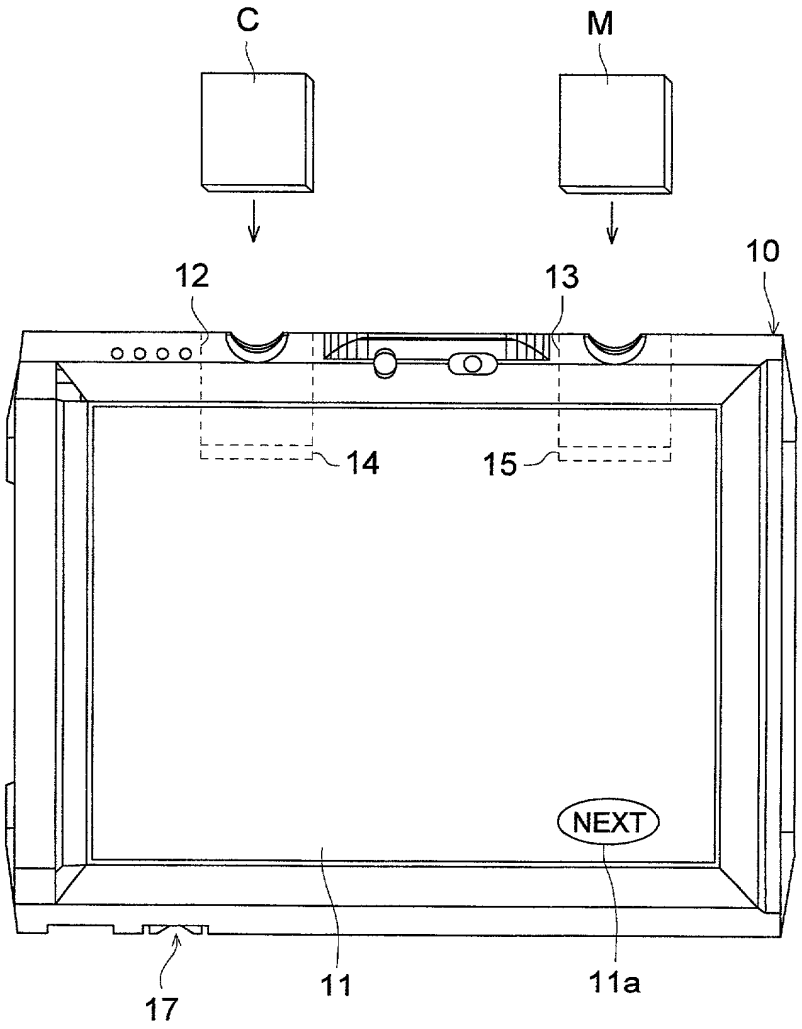


FIG. 2

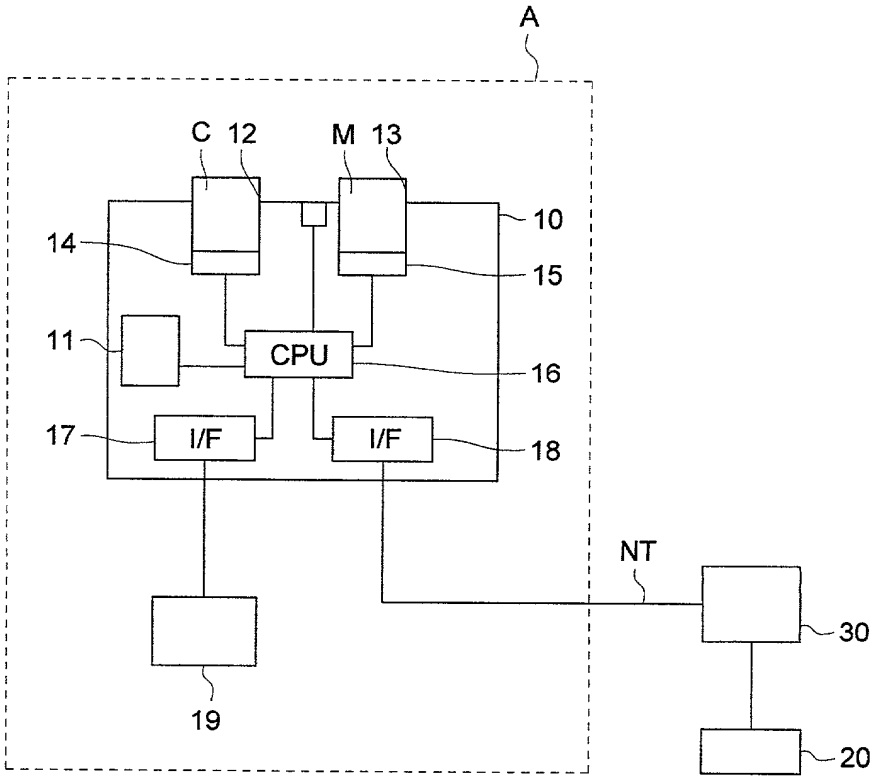
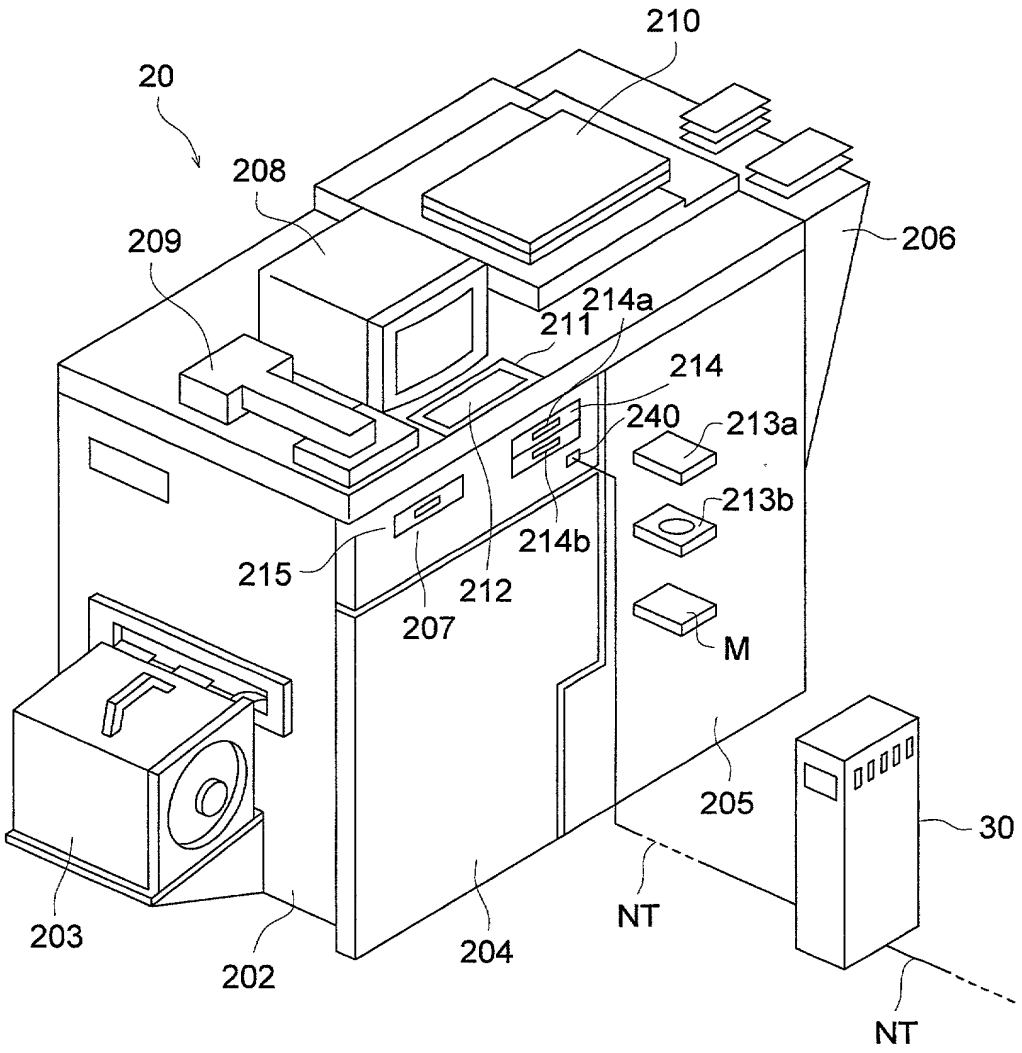


FIG. 3


210
20
208
209
206
214a
211
214
240
213a
213b
214b
215
212
207
M
205
30
203
202
204
NT
NT

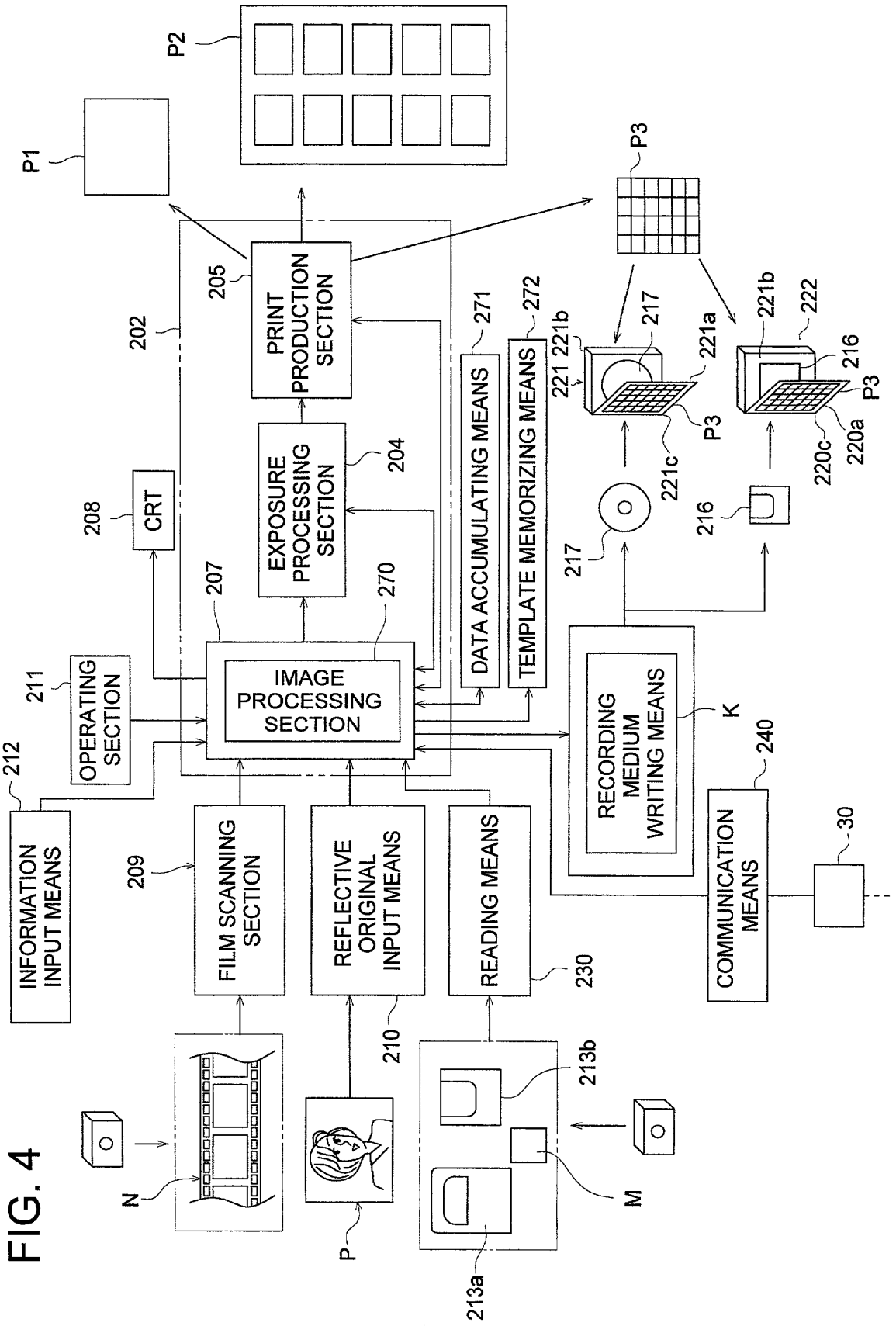

P1
P2
P3
PRINT PRODUCTION SECTION
205
202
EXPOSURE PROCESSING SECTION
204
CRT
208
IMAGE PROCESSING SECTION
207
270
OPERATING SECTION
211
212
INFORMATION INPUT MEANS
FILM SCANNING SECTION
209
REFLECTIVE ORIGINAL INPUT MEANS
210
READING MEANS
230
DATA ACCUMULATING MEANS
271
TEMPLATE MEMORIZING MEANS
272
RECORDING MEDIUM WRITING MEANS
K
COMMUNICATION MEANS
240
30
217
216
221
221a
221b
221c
222
220a
220c
213a
213b
N
P
M

FIG. 4

FIG. 5

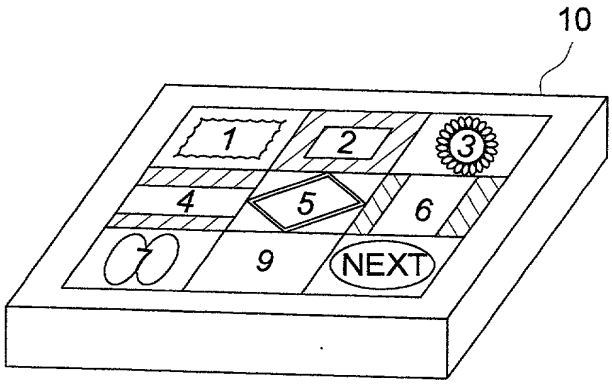


FIG. 6

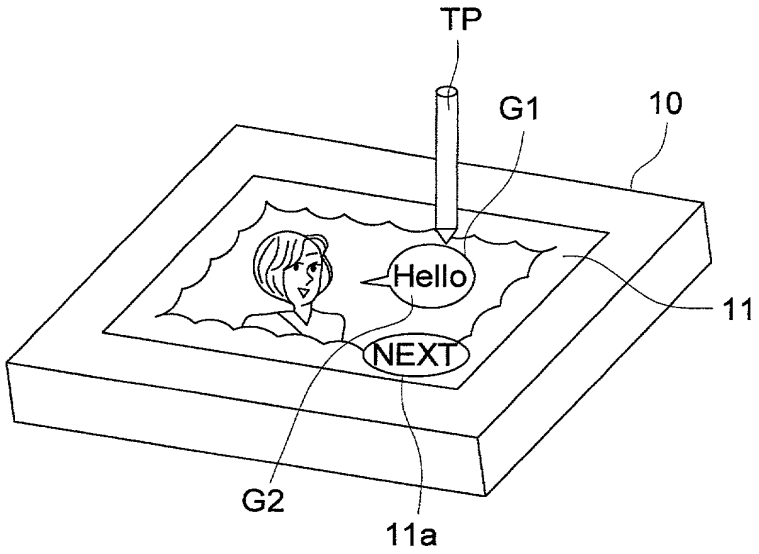


FIG. 7

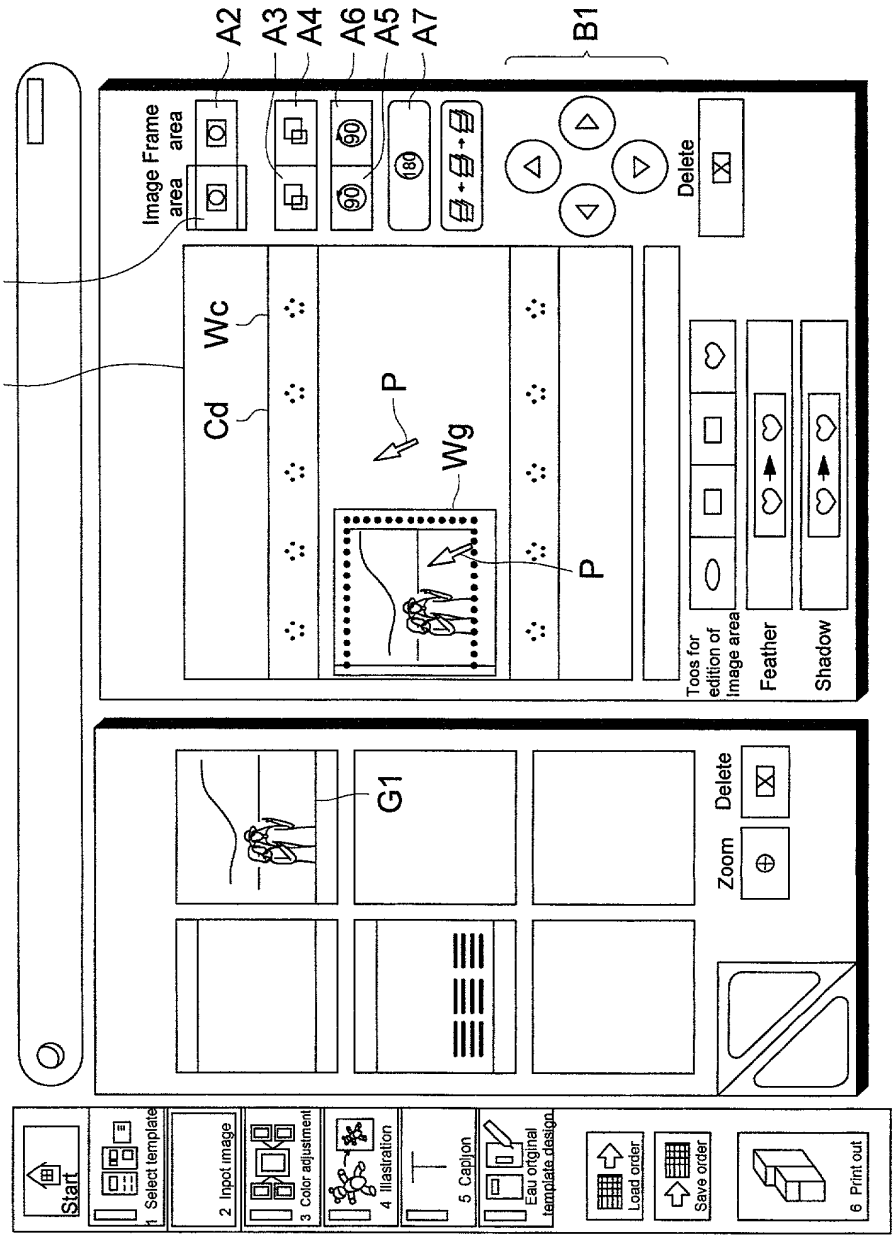

A1
11a
A2
A3
A4
A6
A5
A7
B1
Image Frame area
area
Wc
Cd
P
Wg
P
Delete
Toos for edition of Image area
Feather
Shadow
G1
Zoom
Delete
Start
1 Select template
2 Inpot image
3 Color adjustment
4 Illastration
5 Caption
Eau original template design
Load order
Save order
6 Print out

FIG. 8

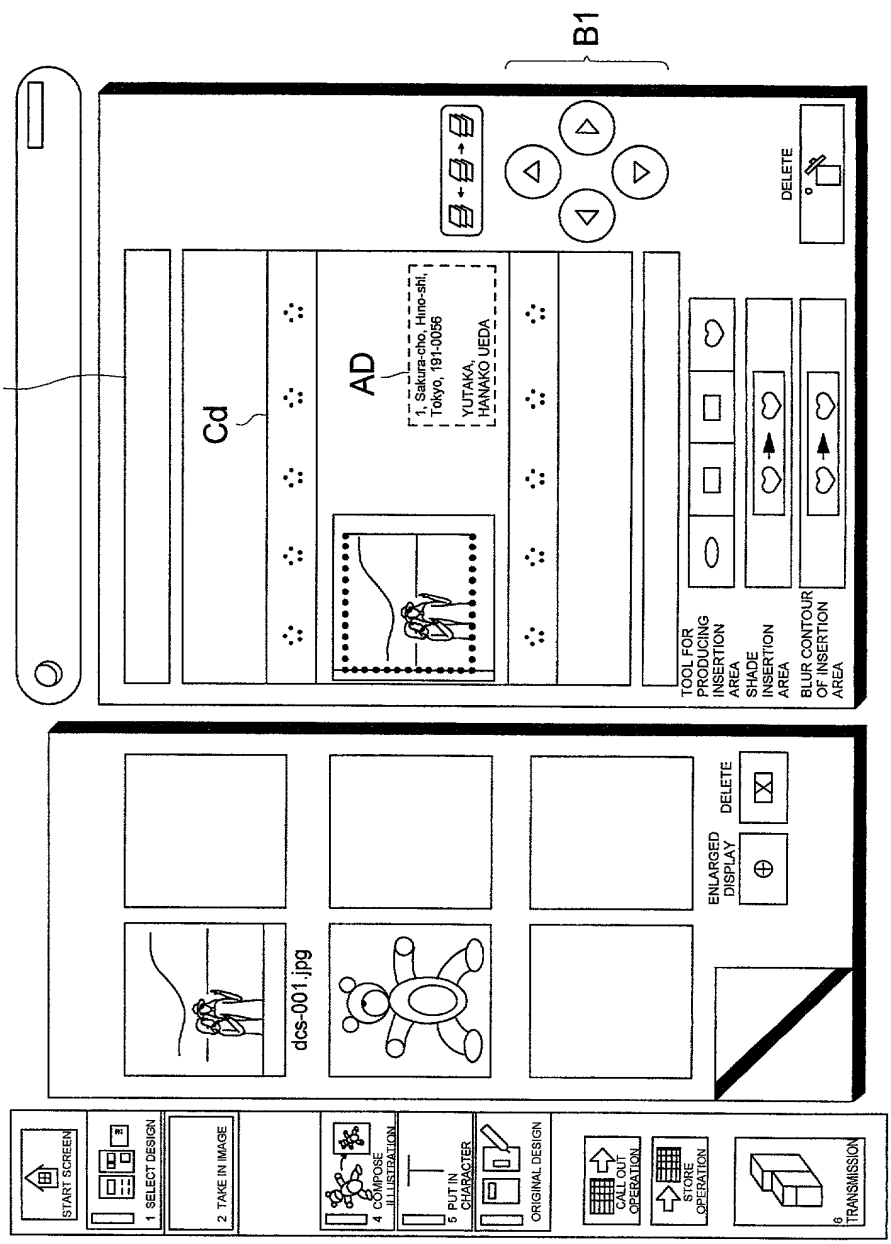
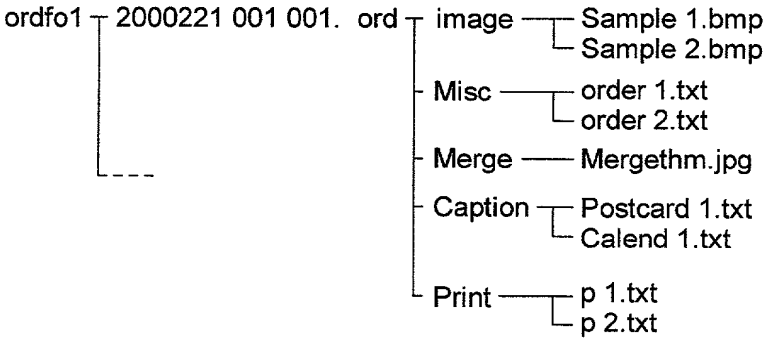

11a
B1
Cd
AD
1, Sakura-cho, Hino-shi, Tokyo, 191-0056
YUTAKA, HANAKO UEDA
TOOL FOR PRODUCING INSERTION AREA
SHADE INSERTION AREA
BLUR CONTOUR OF INSERTION AREA
DELETE
dcs-001.jpg
ENLARGED DISPLAY
DELETE
START SCREEN
1 SELECT DESIGN
2 TAKE IN IMAGE
4 COMPOSE ILLUSTRATION
5 PUT IN CHARACTER
ORIGINAL DESIGN
CALL OUT OPERATION
STORE OPERATION
6 TRANSMISSION

FIG. 9 (a)



EPSON Stylus COLOR 740

FIG. 9 (b)

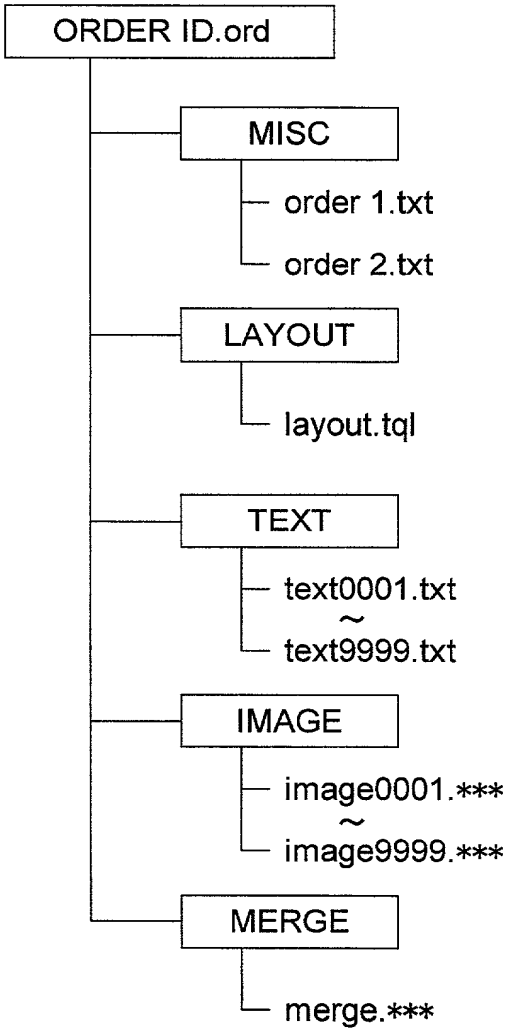

ORDER ID.ord
MISC
order 1.txt
order 2.txt
LAYOUT
layout.tql
TEXT
text0001.txt
~
text9999.txt
IMAGE
image0001.***
~
image9999.***
MERGE
merge.***

FIG. 9 (b-1)

order2.txt

- USER INF (CUSTOMER INFORMATION)
  - ORDER ID
  - CUSTOMER ID
  - PASS WORD
  - CUSTOMER'S POSTAL CODE NUMBER
  - CUSTOMER'S ADDRESS
  - CUSTOMER'S TELEPHONE NUMBER
  - CUSTOMER'S NAME
  - DB CHANGING FLAG
- SHOP INF (SHOP INFORMATION)
  - NAME OF RECEPTION SHOP
  - TELEPHONE NUMBER OF RECEPTION SHOP
  - ID OF RECEPTION SHOP
  - ID OF PRINT-RECEIVING SHOP
  - NAME OF PRINT-RECEIVING SHOP
  - ID OF NEW SHOP
  - NAME OF NEW SHOP
- ORDER INF (ORDER INFORMATION)
  - KIND OF TRANSMISSION SOURCE
  - RECEPTION NUMBER
  - TIME OF RECEPTION
  - KIND OF SERVICE
  - DESIGN NUMBER
  - KIND OF RECORDING MEDIUM
  - NUMBER OF ITEMS BROUGHT IN
  - TOTAL CHARGE
  - KIND OF CHARGE
  - CHARGE FOR EACH KIND
  - WAY OF RECEIVING PRINTS
  - WAY OF SETTLEMENT
  - DATE AND TIME OF ORDER RECEPTION
  - FINISH DATE AND TIME SCHEDULED
  - DATE AND TIME FINISHED
  - DELIVERY DATE AND TIME REQUESTED
- PRINT INF (PRINT INFORMATION)
  - NUMBER OF PRINTS
  - NAME OF PRINT SIZE
  - WIDTH IN PRINT SIZE
  - LENGTH IN PRINT SIZE
  - IMAGE QUALITY
- STATUS INF (PRODUCTION CONTROL INFORMATION)
  - PRODUCTION ID
  - ORDER FOLDER PATH
  - BACKUP FOLDER PATH
  - PRINT FOLDER PATH
  - SETTLEMENT OF ORDER
  - STATE OF RENDERING
  - STATE OF PREPARATION OF PRINTING
  - STATE OF TEST PRINT
  - STATE OF PRINTING
  - DATE AND TIME OF FINAL PROCESSING
  - IMAGE FORMING APPARATUS AT OUTPUT END
  - STATE OF TRANSMISSION
  - ORDER TYPE
  - REMARKS
  - STATUS NOTIFYING MAIL FLAG

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FIG. 9 (b-2)

layout.tql

- medium data
- layout frame data
  - MEDIUM AS PRINTING OBJECT (PAPER, CLOTH, OTHERS)
  - LAYOUT FRAME NUMBER
  - FRAME POSITION INFORMATION (START POINT)
  - FRAME SIZE
  - FRAME SHAPE
  - FRAME PROPERTY (RESTRICTION OF OPERATION/CHANGE)
  - ------
- group data
  - RELATION BETWEEN LAYOUT FRAMES
- object data (Designation/ Edition of Object)
  - OBJECT TYPE (image = 1, string = 2)
  - DATA NAME (FILE NAME)
  - DATA ADDRESS (PATH)
  - MASK IMAGE ADDRESS
  - POSITION TO LAYOUT FRAME
  - ROTATION ANGLE
  - MAGNIFICATION
  - WIDTH, HEIGHT (CHARACTER)
  - ------

FIG. 10 (a)

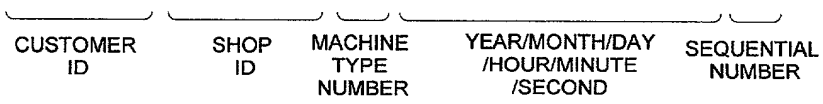
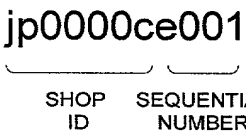


FIG. 10 (b)



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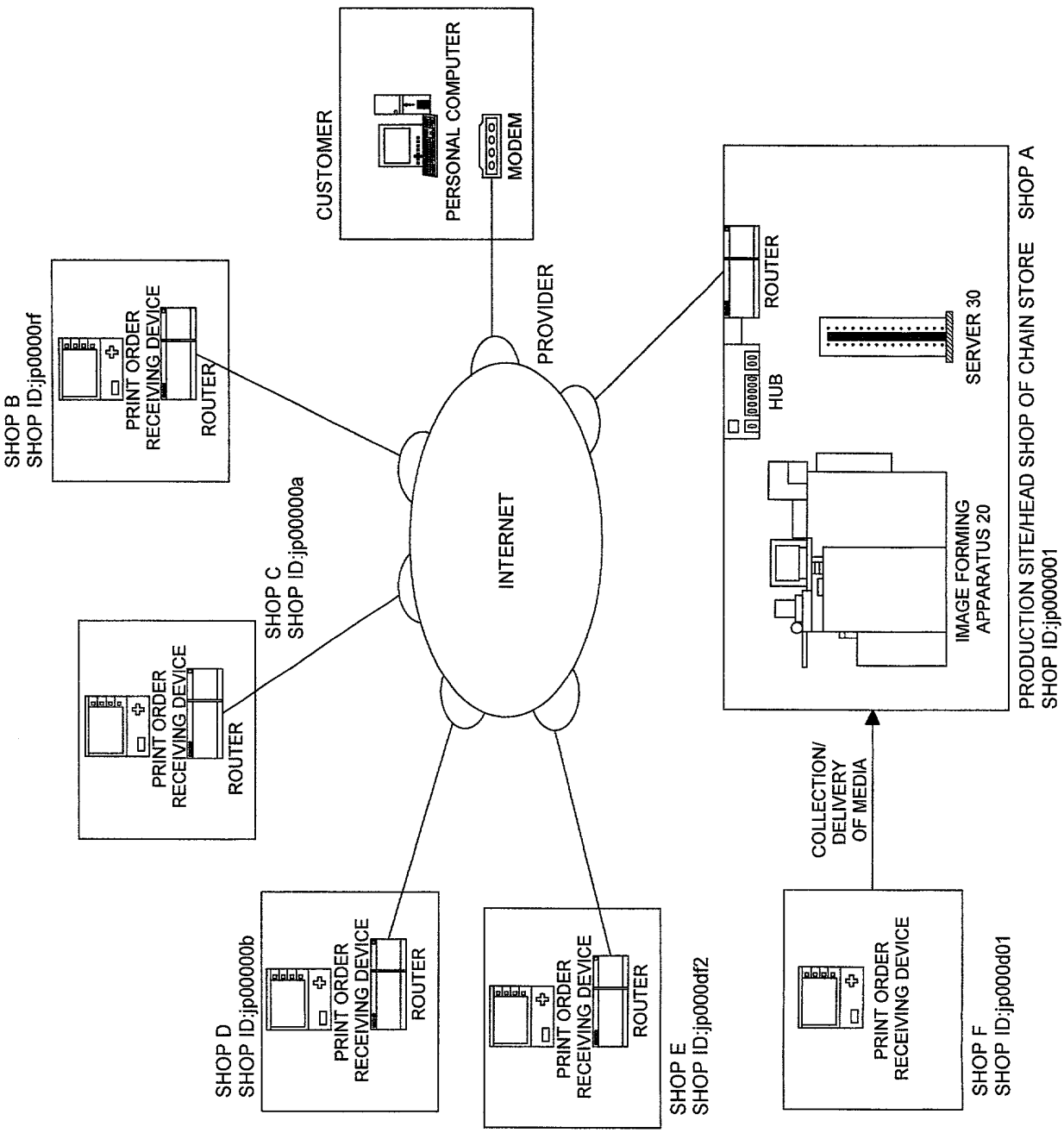

CUSTOMER
PERSONAL COMPUTER
MODEM
PROVIDER
INTERNET
SHOP B
SHOP ID:jp0000rf
PRINT ORDER RECEIVING DEVICE
ROUTER
SHOP C
SHOP ID:jp00000a
PRINT ORDER RECEIVING DEVICE
ROUTER
SHOP D
SHOP ID:jp00000b
PRINT ORDER RECEIVING DEVICE
ROUTER
SHOP E
SHOP ID:jp000df2
PRINT ORDER RECEIVING DEVICE
ROUTER
ROUTER
HUB
SERVER 30
IMAGE FORMING APPARATUS 20
PRODUCTION SITE/HEAD SHOP OF CHAIN STORE SHOP A
SHOP ID:jp000001
COLLECTION/ DELIVERY OF MEDIA
PRINT ORDER RECEIVING DEVICE
SHOP F
SHOP ID:jp000d01

FIG. 11

FIG. 12

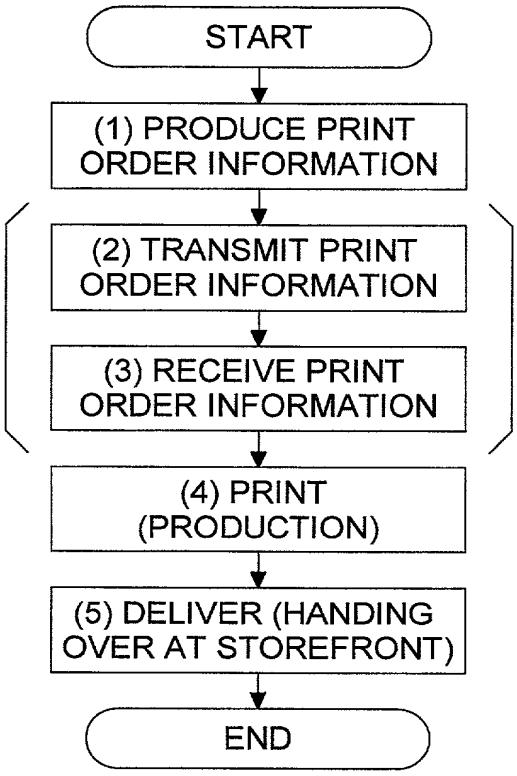

START
(1) PRODUCE PRINT ORDER INFORMATION
(2) TRANSMIT PRINT ORDER INFORMATION
(3) RECEIVE PRINT ORDER INFORMATION
(4) PRINT (PRODUCTION)
(5) DELIVER (HANDING OVER AT STOREFRONT)
END

FIG. 13

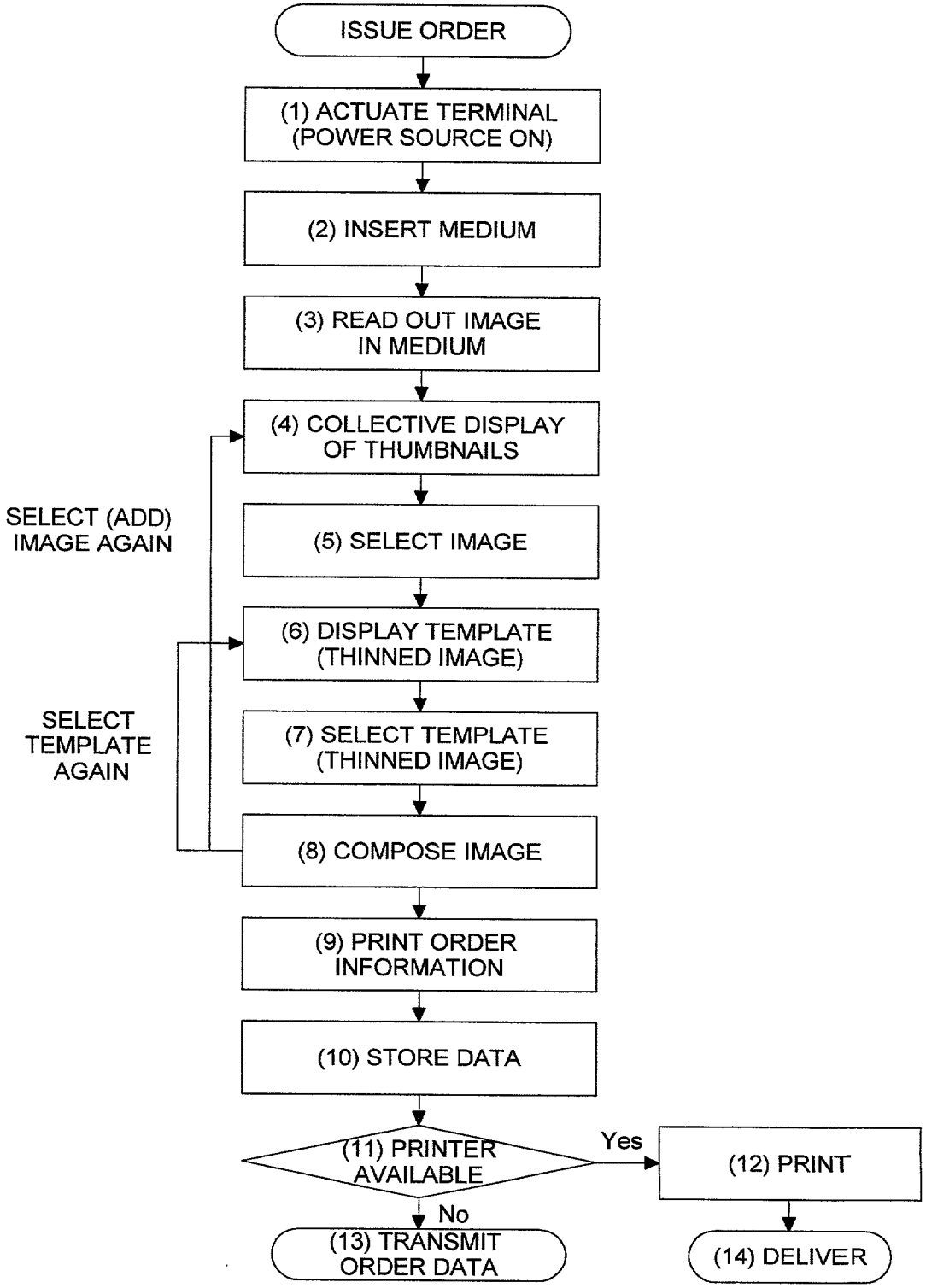
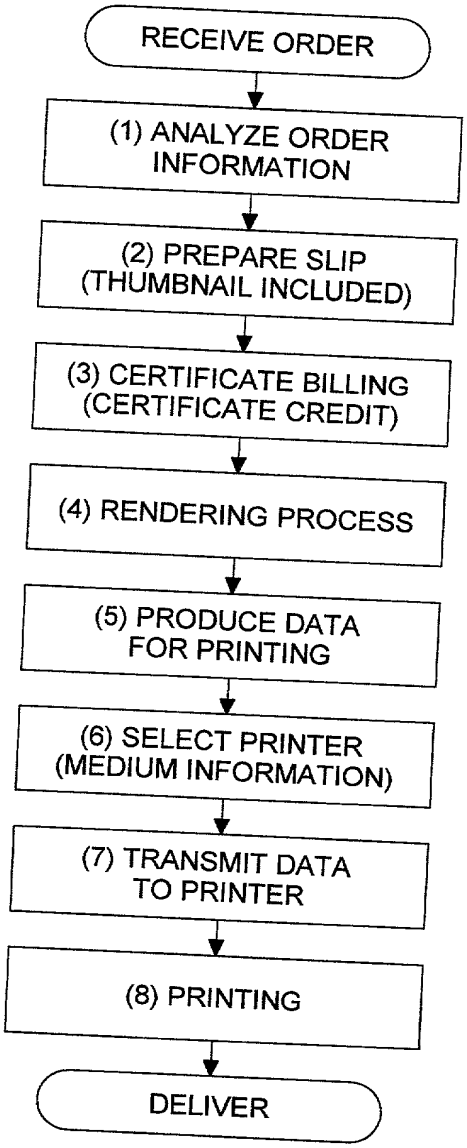

ISSUE ORDER
(1) ACTUATE TERMINAL (POWER SOURCE ON)
(2) INSERT MEDIUM
(3) READ OUT IMAGE IN MEDIUM
(4) COLLECTIVE DISPLAY OF THUMBNAILS
SELECT (ADD) IMAGE AGAIN
(5) SELECT IMAGE
(6) DISPLAY TEMPLATE (THINNED IMAGE)
SELECT TEMPLATE AGAIN
(7) SELECT TEMPLATE (THINNED IMAGE)
(8) COMPOSE IMAGE
(9) PRINT ORDER INFORMATION
(10) STORE DATA
(11) PRINTER AVAILABLE
Yes
(12) PRINT
No
(13) TRANSMIT ORDER DATA
(14) DELIVER

FIG. 14


RECEIVE ORDER
(1) ANALYZE ORDER INFORMATION
(2) PREPARE SLIP (THUMBNAIL INCLUDED)
(3) CERTIFICATE BILLING (CERTIFICATE CREDIT)
(4) RENDERING PROCESS
(5) PRODUCE DATA FOR PRINTING
(6) SELECT PRINTER (MEDIUM INFORMATION)
(7) TRANSMIT DATA TO PRINTER
(8) PRINTING
DELIVER